

TOSHIBA Transistor Silicon NPN Triple Diffused Type (PCT Process)

2SC3620

Color TV Horizontal Driver Applications

Color TV Chroma Output Applications

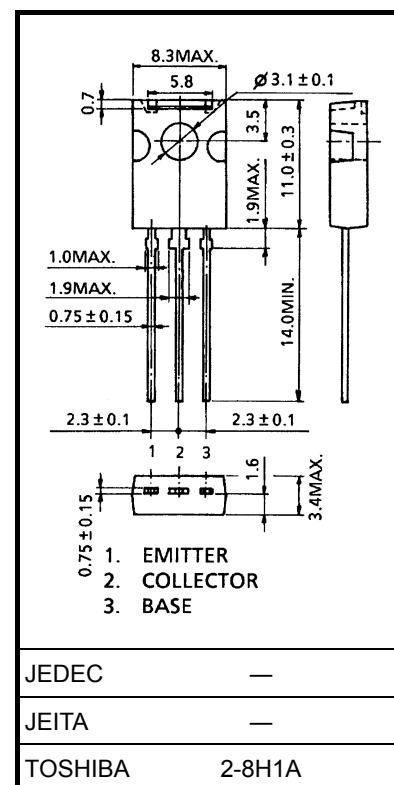
Unit: mm

- High breakdown voltage: $V_{CEO} = 300\text{ V}$
- Recommended for chroma output and driver applications for line-operated TV horizontal.

Absolute Maximum Ratings ($T_c = 25^\circ\text{C}$)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	300	V
Collector-emitter voltage	V_{CEO}	300	V
Emitter-base voltage	V_{EBO}	7	V
Collector current	I_C	100	mA
Base current	I_B	50	mA
Collector power dissipation ($T_a = 25^\circ\text{C}$)	P_C	1.5	W
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 to 150	$^\circ\text{C}$

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

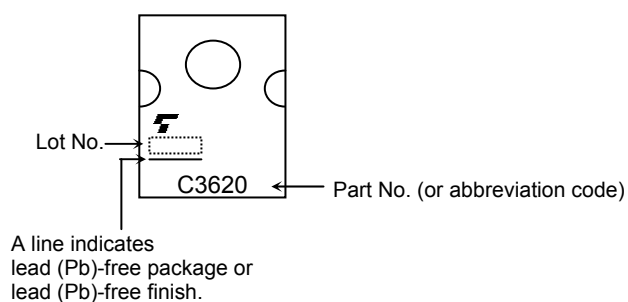


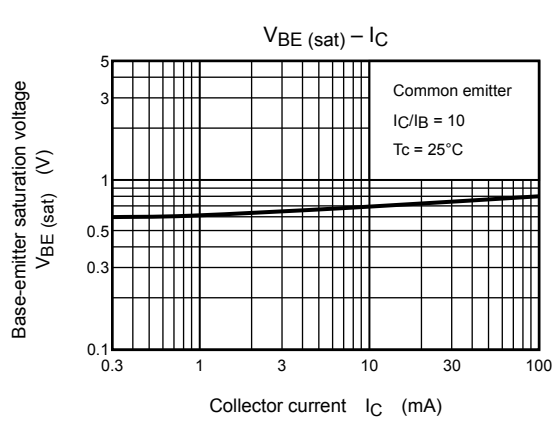
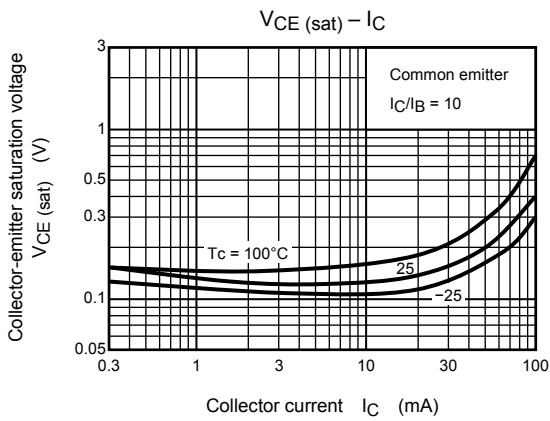
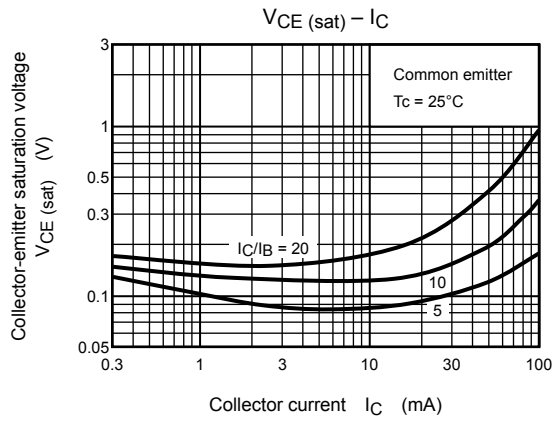
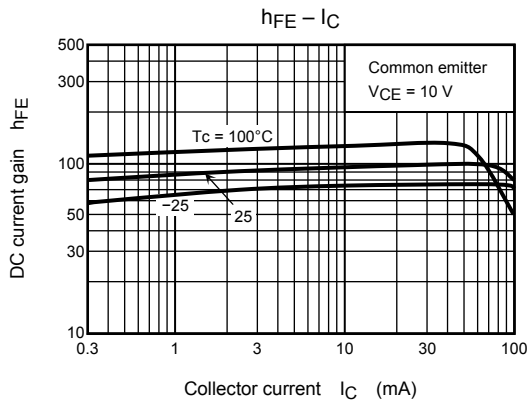
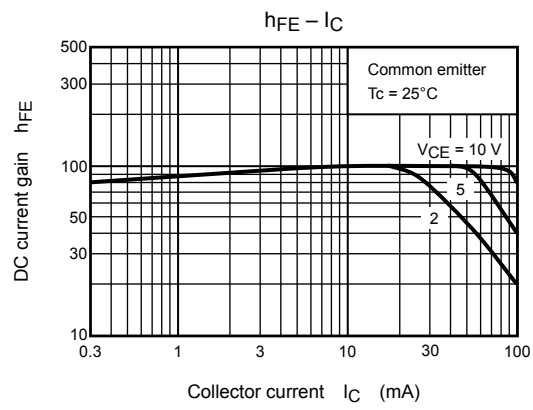
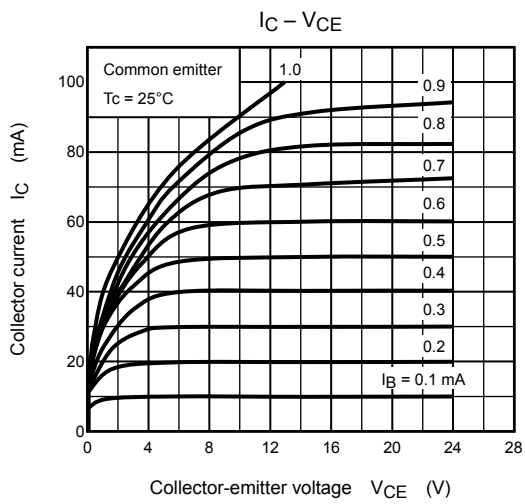
Weight: 0.82 g (typ.)

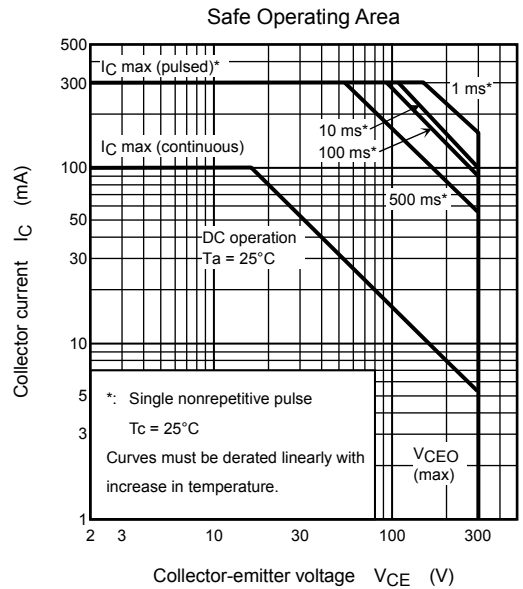
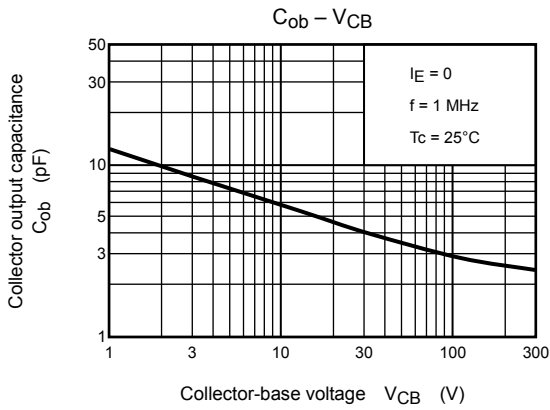
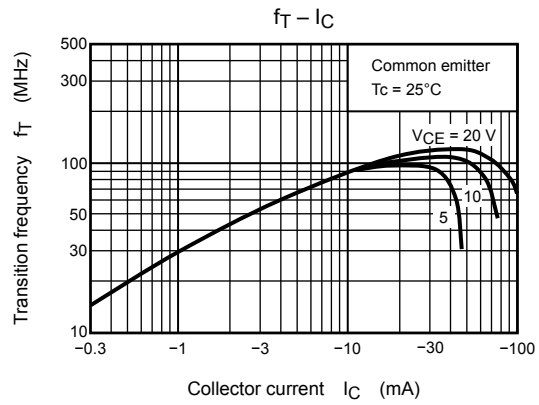
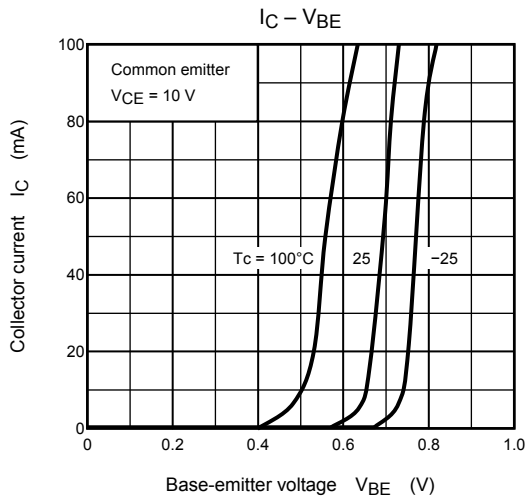
Electrical Characteristics (T_c = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 240 V, I _E = 0	—	—	1.0	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 7 V, I _C = 0	—	—	1.0	μA
DC current gain	h _{FE} (1)	V _{CE} = 10 V, I _C = 50 mA	40	—	170	
	h _{FE} (2)	V _{CE} = 10 V, I _C = 100 mA	20	—	—	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 100 mA, I _B = 20 mA	—	—	1.0	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C = 100 mA, I _B = 20 mA	—	—	1.2	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 30 mA	50	—	—	MHz
Collector output capacitance	C _{ob}	V _{CB} = 50 V, I _E = 0, f = 1 MHz	—	—	5.0	pF

Marking







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